

ENGINEERING PRODUCTS - PACKING INDUSTRIES

CHAINS:

1. Roller Chains:

- Applications: Conveyor systems, packaging machinery (case erectors, packers, palletizers).
- Pitch Size: Ranges from 1/4 inch to 3 inches.

2. Conveyor Chains:

- Applications: Straight, inclined, or curved conveying of packaged goods.
- Pitch Size: Variable, depending on application requirements.

3. Leaf Chains:

- Applications: Forklifts, palletizers, lifting applications.
- Pitch Size: 1/2 inch to 2 inches.

4. Tabletop Chains:

- Applications: Transporting packaged goods on flat surfaces, accumulation, merging, diverting.
- Pitch Size: Typically 1 inch to 4 inches.

5. Plastic Modular Chains:

- Applications: Conveyor systems in packaging, food processing, pharmaceuticals.
- Pitch Size: Usually 1 inch to 2 inches.

6. Drag Chains:

- Applications: Horizontal or inclined movement of bulk materials or packaged goods.
- Pitch Size: Varies based on the conveyor design.

7. Silent Chains:

- Applications: Packaging machinery requiring low noise operation.
- Pitch Size: Usually 1/4 inch to 2 inches.

8. Attachment Chains:

- Applications: Specialized packaging applications like conveying bottles, cans, pallets.
- Pitch Size: Varies depending on the base chain and attachments.

9. Hollow Pin Chains:

- Applications: Conveying packaged goods where the chain needs to pass through the conveying elements.
- Pitch Size: Standardized to match roller chain sizes.

10. Specialty Chains (e.g., Side-flexing Chains, Gripper Chains):

- Applications: Specialized conveying, gripping, or positioning requirements in packaging machinery.
- Pitch Size: Variable based on chain type and application.

11. Timing Chains:

- Applications: Synchronization of moving parts in packaging machinery.
- Pitch Size: Typically smaller pitches, measured in inches or millimeters.

12. Overhead Conveyor Chains:

- Applications: Conveying packaged goods overhead in packaging facilities.
- Pitch Size: Variable, depending on the design and load requirements.

13. Multi-strand Chains:

- Applications: Heavy-duty conveying or lifting applications in packaging.
- Pitch Size: Depends on the number of strands and load requirements.

14. Trolley Chains:

- Applications: Moving suspended loads or conveyors in packaging plants.
- Pitch Size: Varied, depending on the trolley and load specifications.

15. Pallet Conveyor Chains:

- Applications: Conveying pallets of packaged goods in warehouses or distribution centers.
- Pitch Size: Designed to match pallet dimensions and weight capacities.

16. Escalator Chains:

- Applications: Used in inclined or vertical conveyors for packaged goods.
- Pitch Size: Varies based on escalator design and load requirements.

17. Pusher Chains:

- Applications: Pushing or transferring packaged goods along the conveyor line.
- Pitch Size: Depends on the conveyor design and pusher mechanism.

18. Bottle Conveyor Chains:

- Applications: Specifically designed for conveying bottles in bottling plants or packaging lines.
- Pitch Size: Tailored to bottle size and conveyor speed requirements.

19. Slat Chains:

- Applications: Conveying packaged goods on slatted surfaces in packaging machinery.
- Pitch Size: Variable, depending on slat width and conveyor design.

20. Wire Mesh Chains:

- Applications: Conveying packaged goods in high-temperature or corrosive environments.
- Pitch Size: Depends on wire mesh size and conveyor specifications.

SPROCKETS:

1. Roller Chain Sprockets:

- Applications: Used with roller chains in conveyor systems, packaging machinery, and material handling equipment.
- Number of Teeth: Variable, depending on chain size and speed ratio.

2. Conveyor Sprockets:

- Applications: Drive and idler sprockets for conveying packaged goods in straight, curved, or inclined paths.
- Number of Teeth: Determined by conveyor design and speed requirements.

3. Leaf Chain Sprockets:

- Applications: Used with leaf chains in lifting applications, such as palletizers and forklifts.
- Number of Teeth: Corresponds to leaf chain pitch and load requirements.

4. Tabletop Chain Sprockets:

- Applications: Drive and idler sprockets for tabletop chains used in packaging conveyor systems.
- Number of Teeth: Depends on chain pitch and conveyor layout.

5. Plastic Modular Chain Sprockets:

- Applications: Drive and idler sprockets for plastic modular chains in packaging, food processing, and pharmaceutical industries.
- Number of Teeth: Matches modular chain pitch and conveyor specifications.

6. Drag Chain Sprockets:

- Applications: Drive sprockets for drag conveyors used in horizontal or inclined movement of bulk materials or packaged goods.
- Number of Teeth: Designed to match drag chain pitch and conveyor speed.

7. Silent Chain Sprockets:

- Applications: Used with silent chains in packaging machinery requiring low noise operation, such as case sealers and labelers.
- Number of Teeth: Corresponds to silent chain pitch and speed requirements.

8. Attachment Chain Sprockets:

- Applications: Drive and idler sprockets for attachment chains used in specialized packaging applications, such as bottle or can conveyors.
- Number of Teeth: Depends on base chain pitch and attachment spacing.

9. Hollow Pin Chain Sprockets:

- Applications: Used with hollow pin chains for conveying packaged goods where the chain needs to pass through the conveying elements.

- Number of Teeth: Matches roller chain pitch and conveyor layout.
- 10. Specialty Sprockets (e.g., Side-flexing Sprockets, Gripper Sprockets):**
- Applications: Drive and idler sprockets for specialty chains used in unique conveying, gripping, or positioning applications in packaging machinery.
 - Number of Teeth: Designed to match specialty chain pitch and conveyor requirements.
- 11. Timing Sprockets:**
- Applications: Drive sprockets for timing chains used in synchronization of moving parts in packaging machinery.
 - Number of Teeth: Depends on timing chain pitch and desired gear ratio.
- 12. Overhead Conveyor Sprockets:**
- Applications: Drive and idler sprockets for overhead conveyors used in packaging facilities.
 - Number of Teeth: Varies based on conveyor design and load requirements.
- 13. Multi-strand Chain Sprockets:**
- Applications: Drive sprockets for multi-strand chains used in heavy-duty conveying or lifting applications in packaging.
 - Number of Teeth: Depends on the number of strands and load distribution.
- 14. Trolley Sprockets:**
- Applications: Drive sprockets for trolleys used in moving suspended loads or conveyors in packaging plants.
 - Number of Teeth: Matches trolley chain pitch and load specifications.
- 15. Pallet Conveyor Sprockets:**
- Applications: Drive and idler sprockets for pallet conveyors used in warehouses or distribution centers.
 - Number of Teeth: Designed to match pallet conveyor chain pitch and load capacities.
- 16. Escalator Sprockets:**
- Applications: Drive sprockets for escalator chains used in inclined or vertical conveyors for packaged goods.
 - Number of Teeth: Depends on escalator chain pitch and conveyor specifications.
- 17. Pusher Sprockets:**
- Applications: Drive sprockets for pusher chains used in transferring packaged goods along the conveyor line.
 - Number of Teeth: Matches pusher chain pitch and conveyor layout.
- 18. Bottle Conveyor Sprockets:**
- Applications: Drive and idler sprockets for bottle conveyor chains used in bottling plants or packaging lines.
 - Number of Teeth: Determined by bottle conveyor chain pitch and speed requirements.



19. Slat Chain Sprockets:

- Applications: Drive and idler sprockets for slat chains used in conveying packaged goods on slatted surfaces in packaging machinery.
- Number of Teeth: Matches slat chain pitch and conveyor layout.

20. Wire Mesh Chain Sprockets:

- Applications: Drive and idler sprockets for wire mesh chains used in high-temperature or corrosive environments in packaging.
- Number of Teeth: Corresponds to wire mesh chain pitch and conveyor specifications.

PULLEYS:

1. Drive Pulleys:

- Applications: Used as the primary driving force in conveyor systems for moving packaged goods along the production line. Drive pulleys are often motorized to provide continuous motion.

2. Idler Pulleys:

- Applications: Positioned along the conveyor route to support and guide the conveyor belt or chain, ensuring proper alignment and tension. Idler pulleys help reduce friction and prevent belt or chain misalignment.

3. Tensioning Pulleys:

- Applications: Installed in conveyor systems to maintain proper tension in the belt or chain, ensuring smooth operation and preventing slippage. Tensioning pulleys are often adjustable to accommodate variations in load or environmental conditions.

4. Deflection Pulleys:

- Applications: Used to change the direction of a conveyor belt or chain, guiding it around corners or obstacles in the packaging facility. Deflection pulleys help maintain the desired path of the conveyor system.

5. Snub Pulleys:

- Applications: Positioned close to the drive pulley to increase the wrap angle of the conveyor belt or chain, enhancing traction and reducing slippage. Snub pulleys improve the efficiency and reliability of the drive system.

6. Take-up Pulleys:

- Applications: Employed in conveyor systems to compensate for changes in belt or chain length due to thermal expansion, stretching, or loading variations. Take-up pulleys adjust automatically to maintain proper tension in the conveyor system.

7. Tracking Pulleys:

- Applications: Used to correct belt or chain misalignment in conveyor systems, ensuring that the conveyor remains centered and operates smoothly. Tracking pulleys help prevent premature wear and damage to the conveyor components.

8. Snubber Pulleys:

- Applications: Installed in packaging machinery to absorb shock and vibration, providing smoother operation and extending the life of the equipment. Snubber pulleys reduce noise and minimize maintenance requirements.

9. Grooved Pulleys:

- Applications: Designed with grooves or channels to accommodate V-belts or timing belts, providing secure traction and efficient power transmission in packaging machinery. Grooved pulleys are commonly used in belt-driven systems.

10. Flat Belt Pulleys:

- Applications: Used with flat belts in packaging machinery for power transmission, conveying, and positioning of packaged goods. Flat belt pulleys come in various sizes and configurations to suit specific application requirements.

11. Crowned Pulleys:

- Applications: Designed with a slightly curved profile to improve belt tracking and reduce the risk of belt slippage in conveyor systems. Crowned pulleys are especially useful for applications with long conveyor runs or high-speed operation.

12. Step Pulleys:

- Applications: Used in machinery requiring variable speed control, such as packaging equipment with adjustable processing rates. Step pulleys provide different speed settings by changing the belt position between different diameter steps.

13. Wire Rope Pulleys:

- Applications: Utilized in packaging machinery for lifting and positioning heavy loads, such as pallets or containers. Wire rope pulleys offer high strength and durability for demanding industrial applications.

14. Timing Belt Pulleys:

- Applications: Paired with timing belts for precise motion control in packaging machinery, including indexing, positioning, and synchronizing operations. Timing belt pulleys ensure accurate movement of packaged goods through the production process.

15. Variable Speed Pulleys:

- Applications: Integrated into machinery requiring adjustable speed control, allowing operators to regulate the production rate based on changing demand or process requirements. Variable speed pulleys offer flexibility and efficiency in packaging operations.

16. Sheave Pulleys:

- Applications: Used in belt-driven systems for power transmission and speed reduction in packaging machinery. Sheave pulleys accommodate multiple belts or ropes, distributing the load evenly for reliable performance.

17. Parallel Shaft Pulleys:

- Applications: Connected to parallel shafts in packaging machinery to transfer rotational motion and torque between the driving and driven components. Parallel shaft pulleys maintain alignment and minimize power loss in the transmission system.

18. Cable Pulleys:

- Applications: Installed in packaging machinery for guiding and supporting cables used in electrical, pneumatic, or hydraulic systems. Cable pulleys ensure smooth operation and prevent cable damage or entanglement.



19. Counterweight Pulleys:

- Applications: Used in lifting mechanisms to balance the weight of the load, reducing the effort required to lift or lower heavy objects in packaging equipment. Counterweight pulleys improve safety and efficiency in material handling operations.

20. Guide Pulleys:

- Applications: Positioned strategically along the conveyor route to prevent belt or chain deviation and maintain the desired trajectory of packaged goods. Guide pulleys enhance the reliability and accuracy of conveyor systems in packaging applications.